

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P955347

Luminaire Tested: **GALN-SB8B-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32964 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

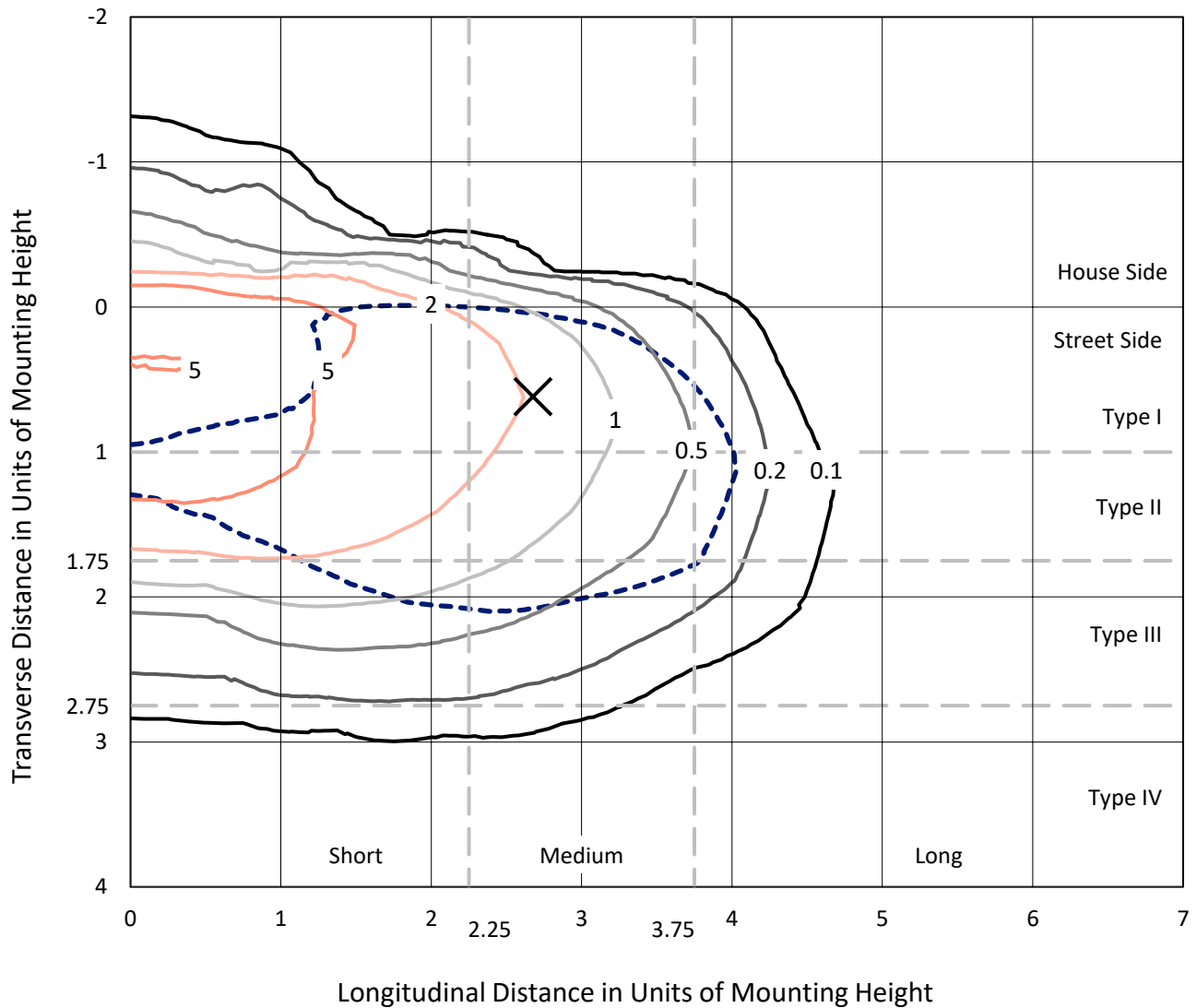
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955347
 CATALOG NUMBER: GALN-SB8B-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

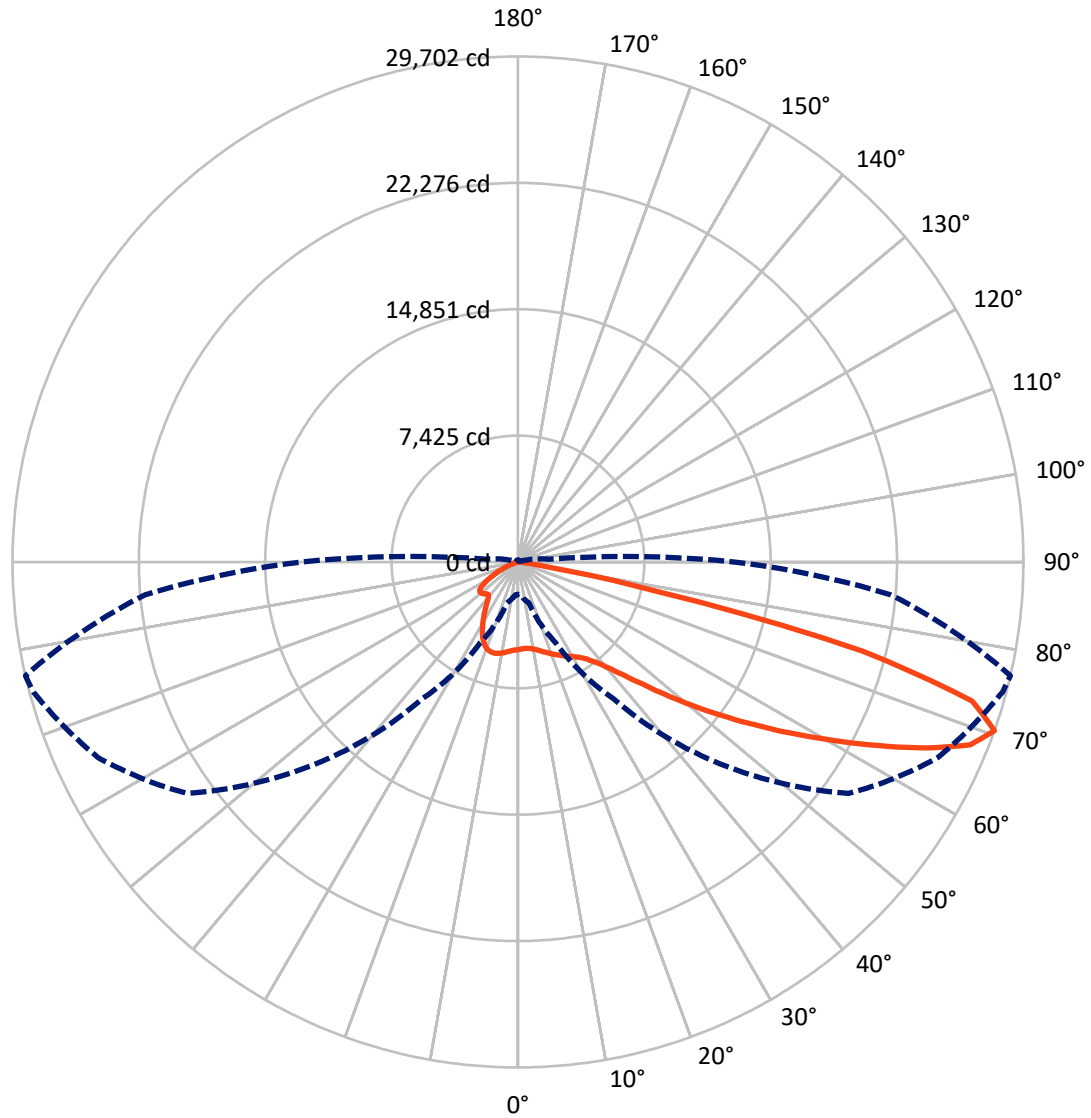
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P955347
CATALOG NUMBER: GALN-SB8B-827-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P955347
 CATALOG NUMBER: GALN-SB8B-827-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3474.9	0.0	3474.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	29489.1	0.0	29489.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	32964.0	0.0	32964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.1	1.3
10°-20°	1052.0	3.2
20°-30°	1627.1	4.9
30°-40°	2952.5	9.0
40°-50°	5573.1	16.9
50°-60°	8052.7	24.4
60°-70°	8571.9	26.0
70°-80°	4542.5	13.8
80°-90°	149.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	32964.0	100.0
0°-180°	32964.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955347

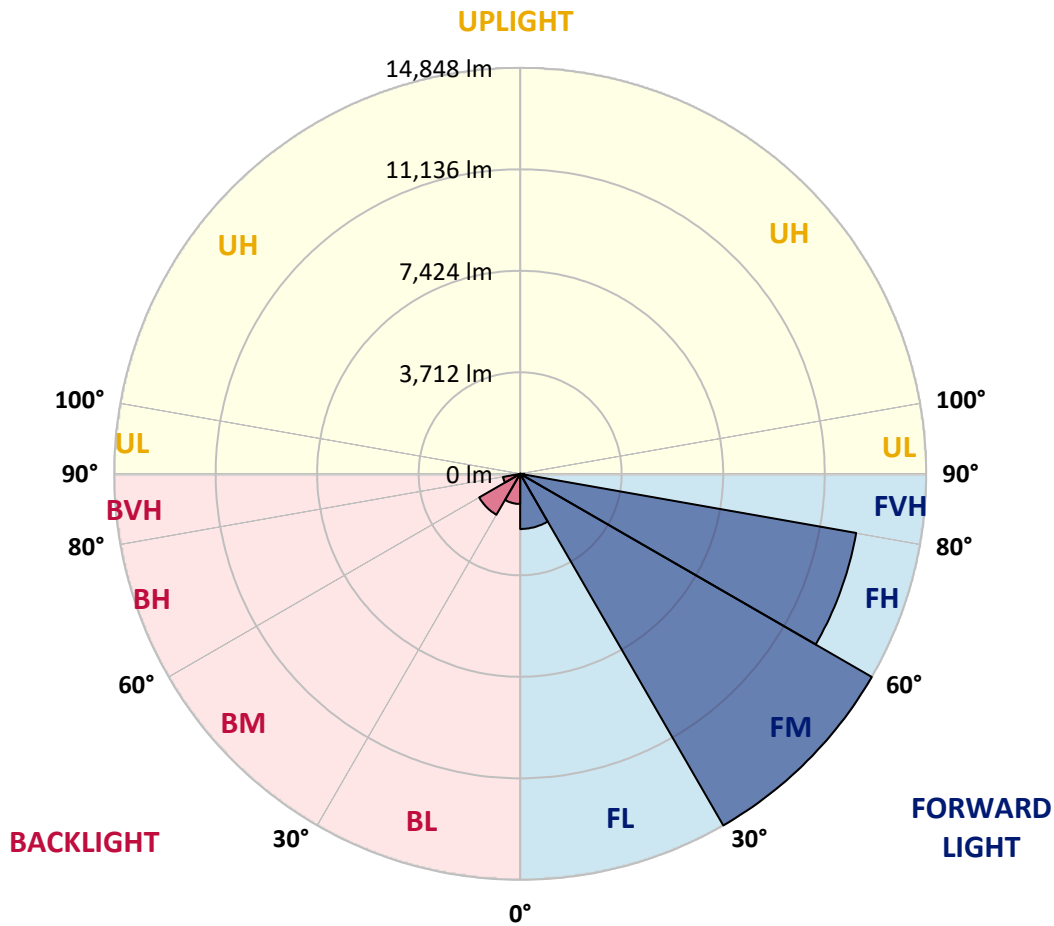
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2018.2	6.1			
FM (30°-60°)	14848.5	45.0			
FH (60°-80°)	12477.3	37.9			G5
FVH (80°-90°)	145.1	0.4			G2/225
BL (0°-30°)	1104.0	3.3	B3/2500		
BM (30°-60°)	1729.8	5.2	B2/2500		
BH (60°-80°)	637.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



REPORT NUMBER: P955347

CATALOG NUMBER: GALN-SB8B-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5141.8	5141.8	5141.8	5141.8	5141.8	5141.8	5141.8	5141.8	5141.8	5141.8
2.5°	4827.5	4871.2	4864.9	4894.1	4904.5	4946.1	4987.7	5043.9	5106.4	5104.3
5°	4554.8	4598.5	4608.9	4648.4	4698.4	4762.9	4848.3	4960.7	5077.3	5096.0
7.5°	4232.1	4277.9	4304.9	4384.1	4475.6	4608.9	4748.3	4912.8	5106.4	5133.5
10°	3909.4	3951.1	3986.4	4098.9	4244.6	4442.3	4669.2	4906.6	5166.8	5206.3
12.5°	3709.6	3749.1	3788.7	3886.5	4067.6	4309.1	4617.2	4935.7	5266.7	5322.9
15°	3638.8	3674.2	3705.4	3792.8	3961.5	4236.3	4606.8	4996.1	5393.7	5468.6
17.5°	3649.2	3667.9	3688.8	3755.4	3919.8	4202.9	4625.5	5100.2	5543.6	5610.2
20°	3709.6	3720.0	3722.1	3767.9	3913.6	4198.8	4663.0	5200.1	5685.1	5774.6
22.5°	3786.6	3790.8	3786.6	3817.8	3953.1	4230.0	4713.0	5320.8	5843.3	5926.6
25°	4146.7	4067.6	3967.7	3907.3	4019.8	4290.4	4787.9	5483.2	6016.1	6097.3
27.5°	5264.6	5037.7	4679.7	4277.9	4157.1	4377.8	4892.0	5647.6	6191.0	6263.8
30°	7079.8	6782.2	6174.3	5268.8	4598.5	4561.0	5027.3	5812.1	6376.2	6455.3
32.5°	8899.2	8826.4	8124.9	6871.7	5591.4	4969.0	5252.1	6034.8	6621.9	6684.3
35°	10739.5	10591.7	10017.1	8778.5	7121.5	5799.6	5626.8	6326.3	6944.5	7015.3
37.5°	12148.8	12059.3	11703.3	10683.3	8936.7	7081.9	6268.0	6778.0	7412.9	7492.0
40°	13393.6	13352.0	13231.3	12558.9	10966.4	8759.8	7265.1	7477.5	8062.4	8156.1
42.5°	14372.0	14469.9	14538.6	14351.2	13058.5	10674.9	8605.7	8460.0	8967.9	9063.7
45°	15373.3	15406.6	15683.5	15954.1	15136.0	12677.5	10117.0	9611.2	10094.1	10212.8
47.5°	16016.6	16149.8	16636.9	17113.6	16882.6	14663.5	11740.8	10970.5	11399.4	11622.1
50°	16064.4	16316.3	16986.6	17817.2	18154.5	16553.6	13506.0	12519.3	12975.2	13220.9
52.5°	15267.2	15658.5	16697.3	17913.0	18841.4	18154.5	15331.7	14068.1	14653.1	14973.6
55°	11705.4	12217.5	15608.6	17392.6	18868.5	19368.1	17109.5	15681.4	16522.4	16884.6
57.5°	10198.2	10456.4	12271.6	16489.1	18366.8	19857.3	18716.5	17217.7	18556.2	19005.9
60°	8485.0	8824.3	10291.9	15011.1	17686.1	19905.2	20136.2	19199.5	20760.8	21266.6
62.5°	5766.3	6134.8	7594.0	12471.4	16755.6	19882.3	21299.9	21239.5	23210.9	23754.2
65°	3572.2	3803.3	4765.0	10183.7	15454.5	19907.3	22517.7	23716.8	25796.4	26348.0
67.5°	2822.8	2928.9	3430.6	7818.8	13212.5	19345.2	23733.4	26046.2	28229.9	28667.0
70°	1896.4	1961.0	2496.0	5241.7	9829.8	16751.4	23710.5	27216.1	29483.1	29701.6
72.5°	999.2	1049.2	1459.3	2427.3	5937.0	11907.3	19986.4	25817.2	28236.1	27907.2
75°	499.6	582.9	982.6	1232.4	2535.5	6640.6	12411.1	20354.8	22224.2	20950.2
77.5°	378.9	458.0	811.9	811.9	882.6	2235.7	5256.3	11101.7	10239.9	8526.6
80°	241.5	312.3	709.9	614.1	368.5	568.3	1369.8	3110.1	2175.4	1654.9
82.5°	141.6	204.0	591.2	405.9	206.1	210.3	387.2	662.0	564.1	439.2
85°	56.2	133.2	405.9	160.3	81.2	52.0	116.6	141.6	116.6	87.4
87.5°	0.0	31.2	70.8	0.0	6.2	4.2	8.3	10.4	10.4	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955347
 CATALOG NUMBER: GALN-SB8B-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5141.8	0°	5141.8	5141.8	5141.8	5141.8	5141.8	5141.8	5141.8	5141.8	5141.8	5141.8
5146.0	2.5°	5164.7	5168.9	5181.3	5183.4	5154.3	5116.8	5102.2	5096.0	5071.0	5068.9
5179.3	5°	5227.1	5245.9	5227.1	5173.0	5043.9	4862.8	4725.4	4613.0	4511.0	4479.8
5293.8	7.5°	5352.0	5370.8	5314.6	5102.2	4777.5	4417.4	4092.6	3863.6	3657.5	3580.5
5433.2	10°	5531.1	5556.0	5379.1	4950.3	4375.7	3797.0	3247.4	2860.3	2558.4	2435.6
5622.7	12.5°	5755.9	5766.3	5414.5	4719.2	3853.2	3026.8	2248.2	1834.0	1565.4	1465.5
5851.6	15°	6003.6	5989.0	5418.7	4404.9	3141.3	2140.0	1467.6	1205.3	1097.1	1063.7
6080.6	17.5°	6263.8	6203.5	5335.4	3951.1	2360.6	1463.4	1088.7	1026.3	1007.5	999.2
6307.5	20°	6519.9	6384.6	5183.4	3357.8	1694.5	1092.9	988.8	970.1	959.7	955.5
6536.5	22.5°	6753.0	6522.0	4923.2	2668.7	1230.3	965.9	934.7	918.0	899.3	891.0
6759.3	25°	6979.9	6601.1	4556.8	2025.5	984.6	903.5	878.5	847.3	822.3	811.9
6998.7	27.5°	7200.6	6651.0	4098.9	1498.8	878.5	845.2	799.4	755.7	736.9	732.8
7254.7	30°	7435.8	6667.7	3578.4	1117.9	813.9	772.3	705.7	655.7	645.3	647.4
7600.3	32.5°	7723.1	6692.7	3053.8	915.9	759.8	684.9	605.8	553.7	545.4	553.7
8104.0	35°	8066.6	6742.6	2548.0	843.1	711.9	595.4	510.0	466.3	458.0	464.2
8749.4	37.5°	8532.9	6823.8	2075.5	828.5	672.4	520.4	428.8	393.4	393.4	395.5
9540.4	40°	9153.2	7040.3	1652.9	818.1	651.6	464.2	362.2	347.6	353.9	358.1
10548.0	42.5°	9908.9	7500.4	1367.7	805.6	628.7	439.2	328.9	322.7	333.1	337.2
11755.3	45°	10756.1	8083.2	1267.8	784.8	607.9	455.9	314.3	306.0	318.5	320.6
13108.4	47.5°	11632.5	8653.6	1255.3	761.9	587.0	480.9	310.2	291.4	306.0	308.1
14553.1	50°	12519.3	9026.2	1267.8	726.5	553.7	480.9	312.3	276.9	289.4	295.6
16052.0	52.5°	13412.4	9196.9	1259.4	649.5	495.4	451.7	312.3	264.4	276.9	281.0
17671.5	55°	14278.4	9163.6	1132.4	535.0	420.5	399.7	303.9	254.0	262.3	264.4
19201.6	57.5°	14963.2	8699.4	897.2	416.3	341.4	333.1	276.9	241.5	247.7	245.6
20604.6	60°	15321.3	7679.4	641.2	320.6	268.5	262.3	243.6	224.8	229.0	218.6
21793.3	62.5°	15325.4	6330.4	428.8	254.0	214.4	208.2	208.2	201.9	197.8	176.9
22713.4	65°	14998.6	4833.7	285.2	201.9	172.8	162.4	174.9	172.8	158.2	129.1
22994.4	67.5°	14257.5	3168.3	216.5	158.2	133.2	127.0	139.5	145.7	135.3	108.2
21970.2	70°	12733.7	1844.4	179.0	122.8	99.9	93.7	112.4	124.9	112.4	87.4
18779.0	72.5°	10577.1	995.1	145.7	91.6	68.7	62.5	89.5	102.0	89.5	64.5
12048.9	75°	6863.4	532.9	112.4	60.4	35.4	39.6	66.6	74.9	62.5	41.6
3536.8	77.5°	2304.4	235.2	70.8	29.1	16.7	16.7	39.6	45.8	29.1	14.6
643.2	80°	514.2	97.8	29.1	12.5	6.2	6.2	8.3	8.3	4.2	0.0
197.8	82.5°	168.6	39.6	12.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
50.0	85°	64.5	14.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.7	87.5°	25.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<u>180°</u>
5141.8
5073.1
4461.1
3549.3
2383.5
1434.3
1063.7
997.1
951.3
888.9
807.7
728.6
647.4
551.6
462.1
393.4
358.1
337.2
322.7
310.2
297.7
281.0
264.4
245.6
216.5
170.7
124.9
106.2
83.3
62.5
37.5
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